DATE: 12/17/2001



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PATENT APPLICATION: US/10/010,066
                                                            TIME: 11:09:14
                     Input Set : A:\Sequence Listing.txt
                     Output Set: N:\CRF3\12172001\J010066.raw
     4 <110> APPLICANT: University of Iowa Research Foundation
             Schwartz, David A.
     6
             Schutte, Brian C.
     8 <120> TITLE OF INVENTION: Variant TLR4 nucleic acid and uses thereof
    10 <130> FILE REFERENCE: 875.010WO1
C--> 12 <140> CURRENT APPLICATION NUMBER: US/10/010,066
C--> 12 <141> CURRENT FILING DATE: 2001-12-07
    12 <150> PRIOR APPLICATION NUMBER: US 09/329,515
                                                                ENTERED
    13 <151> PRIOR FILING DATE: 1999-06-10
    15 <160> NUMBER OF SEQ ID NOS: 72
    17 <170> SOFTWARE: FastSEQ for Windows Version 4.0
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    21 <212> TYPE: DNA
    22 <213> ORGANISM: Homo sapiens
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    29 <212> TYPE: DNA
    30 <213> ORGANISM: Homo sapiens
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    35 <210> SEQ ID NO: 3
    36 <211> LENGTH: 28
    37 <212> TYPE: DNA
    38 <213> ORGANISM: Homo sapiens
    40 <400> SEQUENCE: 3
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    42 <210> SEQ ID NO: 4
    43 <211> LENGTH: 21
    44 <212> TYPE: PRT
    45 <213> ORGANISM: Homo sapiens
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    48 Leu Ala Tyr Leu Asp Tyr Tyr Leu Asp Asp Ile Ile Asp Leu Phe Asn
                          5
                                             10
    49
         1
    50
        Cys Leu Thr Asn Val
    51
                     20
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    54 <211> LENGTH: 20
    55 <212> TYPE: PRT
    56 <213> ORGANISM: Mus musculus
    58 <400> SEQUENCE: 5
    59 Leu Thr Tyr Thr Asn Asp Phe Ser Asp Asp Ile Val Lys Phe His Cys
    60
                                             10
         1
    61
         Leu Ala Asn Val
    62
                     20
```

RAW SEQUENCE LISTING

RAW SEQUENCE LISTING DATE: 12/17/2001 PATENT APPLICATION: US/10/010,066 TIME: 11:09:14

Input Set : A:\Sequence Listing.txt
Output Set: N:\CRF3\12172001\J010066.raw

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64 <210> SEO ID NO: 6
65 <211> LENGTH: 20
66 <212> TYPE: PRT
67 <213> ORGANISM: Rattus norvegius
69 <400> SEQUENCE: 6
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71
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                                         10
72
     Leu Ala Asn Ile
73
75 <210> SEQ ID NO: 7
76 <211> LENGTH: 20
77 <212> TYPE: PRT
78 <213> ORGANISM: Cricetulus griseus
80 <400> SEQUENCE: 7
    Phe Thr Tyr Ala Asn Glu Phe Ser Glu Asp Ile Thr Asp Phe Asp Cys
82
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     1
83
     Leu Ala Asn Val
84
86 <210> SEQ ID NO: 8
87 <211> LENGTH: 20
88 <212> TYPE: DNA
89 <213> ORGANISM: Homo sapiens
91 <400> SEQUENCE: 8
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94 <210> SEQ ID NO: 9
95 <211> LENGTH: 20
96 <212> TYPE: DNA
97 <213> ORGANISM: Homo sapiens
99 <400> SEQUENCE: 9
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100 gtccaatggg gaagttctct
102 <210> SEQ ID NO: 10
103 <211> LENGTH: 20
104 <212> TYPE: DNA
105 <213> ORGANISM: Homo sapiens
107 <400> SEQUENCE: 10
108 tcattgtcct gcagaaggtg
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110 <210> SEQ ID NO: 11
111 <211> LENGTH: 20
112 <212> TYPE: DNA
113 <213> ORGANISM: Homo sapiens
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116 cagggetttt etgagtegte
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120 <212> TYPE: DNA
121 <213> ORGANISM: Homo sapiens
123 <400> SEQUENCE: 12
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124 ctgctcggtc aaacggtgat
126 <210> SEQ ID NO: 13
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Input Set : A:\Sequence Listing.txt
Output Set: N:\CRF3\12172001\J010066.raw

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	<211> LENGTH: 20	
144	<212> TYPE: DNA	
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147	<400> SEQUENCE: 15	
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	<210> SEQ ID NO: 16	
	<211> LENGTH: 20	
	<212> TYPE: DNA	
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	<212> TYPE: DNA	
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	<210> SEQ ID NO: 18	
	<211> LENGTH: 19	
	<212> TYPE: DNA	
	<213> ORGANISM: Homo sapiens	
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	<210> SEQ ID NO: 19	
	<211> LENGTH: 23	
	<212> TYPE: DNA	
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	<210> SEQ ID NO: 20	
	<211> LENGTH: 21	
	<212> TYPE: DNA	
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	tttcttcatt ttccctggtg a <210> SEQ ID NO: 21	<b>41</b>
	<211> LENGTH: 20	
TJŢ	ZZIIZ DENGIN; ZU	



RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/010,066

DATE: 12/17/2001
TIME: 11:09:14

Input Set : A:\Sequence Listing.txt
Output Set: N:\CRF3\12172001\J010066.raw

192	<212> TYPE: DNA	
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	<211> LENGTH: 25 <212> TYPE: DNA	
	<213> ORGANISM: Homo sapiens	
	<pre>&lt;213&gt; ORGANISM: NOMO SAPTENS &lt;400&gt; SEQUENCE: 23</pre>	
	tcaaacttct tgggcttaga aca	23
	<210> SEQ ID NO: 24	20
	<211> LENGTH: 20	
	<212> TYPE: DNA	
	<213> ORGANISM: Homo sapiens	
	<400> SEQUENCE: 24	
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222	<210> SEQ ID NO: 25	
223	<211> LENGTH: 20	
224	<212> TYPE: DNA	
225	<213> ORGANISM: Homo sapiens	
227	<400> SEQUENCE: 25	
228	tccaggaaaa cttccttcca	20
	<210> SEQ ID NO: 26	
	<211> LENGTH: 18	
	<212> TYPE: DNA	
	<213> ORGANISM: Homo sapiens	
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	<210> SEQ ID NO: 27	
	<211> LENGTH: 20 <212> TYPE: DNA	
	<213> ORGANISM: Homo sapiens	
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	<210> SEQ ID NO: 28	
	<211> LENGTH: 20	
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	<213> ORGANISM: Homo sapiens	
	<400> SEQUENCE: 28	
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254	<210> SEQ ID NO: 29	
255	<211> LENGTH: 20	
256	<212> TYPE: DNA	



RAW SEQUENCE LISTING DATE: 12/17/2001 PATENT APPLICATION: US/10/010,066 TIME: 11:09:14

Input Set : A:\Sequence Listing.txt
Output Set: N:\CRF3\12172001\J010066.raw

	<213> ORGANISM: Homo sapiens	
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268		20
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	<211> LENGTH: 20	
	<212> TYPE: DNA	
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	<400> SEQUENCE: 31	
	aagccgaaag gtgattgttg	20
	<210> SEQ ID NO: 32	
	<211> LENGTH: 23	
	<212> TYPE: DNA	
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284		23
	<210> SEQ ID NO: 33	
	<211> LENGTH: 20	
	<212> TYPE: DNA	
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	<212> TYPE: DNA	
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	<210> SEQ ID NO: 35	
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	<212> TYPE: DNA	
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	<212> TYPE: DNA	
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Use of n and/or Xaa has been detected in the Sequence Listing. Review the Sequence Listing to insure a corresponding explanation is presented in the <220> to <223> fields of each sequence using n or Xaa.



VERIFICATION SUMMARY
PATENT APPLICATION: US/10/010,066

DATE: 12/17/2001
TIME: 11:09:15

Input Set : A:\Sequence Listing.txt
Output Set: N:\CRF3\12172001\J010066.raw

L:12 M:270 C: Current Application Number differs, Replaced Current Application No L:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:547 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:62
L:548 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:62
L:549 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:62
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L:590 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:62
L:598 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:62
L:598 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:62
L:599 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:62
L:600 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:62
L:601 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:62
L:602 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:62
L:604 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:62
L:605 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:62
L:606 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:62
L:606 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:62
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L:606 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:62
L:606 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:62
L:614 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:62
L:620 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:62
L:630 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:70
L:787 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:70
L:788 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:70
L:788 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:72
L:848 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:72
L:859 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:72
L:859 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:72
L:851 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:72
L:852 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:72
L:853 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:72
L:865 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:72
L:871 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:72
L:872 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:72
L:873 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:72
L:874 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:72
L: